

AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph beginning at page 3, line 22 to line 30, with the following rewritten paragraph:

-- The present invention provides a storage-stable modified asphalt composition, which comprises:

base asphalt	50-97.7 parts by weight;
polymer having double bonds	2.0-20.0 parts by weight;
compatilizer <u>compatibilizer</u>	0.1-20.0 parts by weight;
cross-linking reagent	0.1-10.0 parts by weight;
organic polar compound	0.1-10.0 parts by weight;

and the softening point difference of its product determined by the stability test is lower than 2.5 °C.--

Please replace the paragraph beginning at page 3, line 31 to page 4, line 5, with the following rewritten paragraph:

--The present invention also provides a process for preparing the storage-stable modified asphalt composition, which comprises mixing 50-97.7 parts by weight of a base asphalt, a 2.0-20.0 parts by weight of a polymer having double bonds, 0.1-20.0 parts by weight of a ~~compatilizer~~ compatibilizer, 0.1-10.0 parts by weight of a cross-linking reagent, and 0.1-10.0 parts by weight of a organic polar compound under certain conditions.--

Please replace the paragraph beginning at page 4, line 7 to line 15, with the following rewritten paragraph:

-- The present invention provides a storage-stable modified asphalt composition, which comprises:

base asphalt	50-97.7 parts by weight;
polymer having double bonds	2.0-20.0 parts by weight;
compatilizer <u>compatibilizer</u>	0.1-20.0 parts by weight;
cross-linking reagent	0.1-10.0 parts by weight;
organic polar compound	0.1-10.0 parts by weight;

and the softening point difference of its product determined by the stability test is lower than 2.5 °C.--

Please replace the paragraph beginning at page 4, line 31 to page 5, line 3, with the following rewritten paragraph:

-- Said ~~compatilizer~~ compatibilizer is one selected from the group consisting of styrene tar, tall oil, acid-containing tall oil, catalytically cracked oil slurry, heavy deasphalted oil, extracted oil obtained by solvent refining, naphthenic acid, naphthenic oil, white oil, and coal tar fractions, or a mixture thereof.--

**Please replace the paragraph beginning at page 6, line 27 to page 7, line 5,
with the following rewritten paragraph:**

-- The present invention also provides the process for preparing a storage-stable modified asphalt composition, which comprises: mixing 50-97.7 parts by weight of a base asphalt, 2.0-20.0 parts by weight of a polymer having double bonds, 0.1-20.0 parts by weight of a ~~compatilizer~~ compatibilizer, 0.1-10.0 parts by weight of a cross-linking reagent, and 0.1-10.0 parts by weight of an organic polar compound under certain conditions.--

**Please replace the paragraph beginning at page 7, line 6 to line 10, with the
following rewritten paragraph:**

-- Said ~~compatilizer~~ compatibilizer can be first mixed with the base asphalt, or with the polymer having double bonds, or with the mixture of the polymer having double bonds and the base asphalt; or said ~~compatilizer~~ compatibilizer can be added at last, said ~~compatilizer~~ compatibilizer can be added either once or twice. Said base asphalt can also be added either once or twice.--

**Please replace the paragraph beginning at page 7, line 16 to line 24, with the
following rewritten paragraph:**

-- Embodiment 1:

The process provided by the present invention comprises the following steps:

(1) contacting the base asphalt with the ~~compatilizer~~ compatibilizer at 100°C-

250°C for 0.1-6 h to yield the treated base asphalt;

(2) mixing the treated base asphalt with the polymer having double bonds for 0.1-10 h to yield the asphalt mother liquor;

(3) adding the cross-linking reagent, organic polar compound, and optional base asphalt to the asphalt mother liquor at 100°C-250°C to react for 5-300 min, yielding the modified asphalt composition.--

Please replace the paragraph beginning at page 7, line 25 to line 30, with the following rewritten paragraph:

-- In this embodiment, said base asphalt, polymer having double bonds, ~~compatilizer~~ compatibilizer, cross-linking reagent, and organic polar compound account for 50-97.7 parts by weight, 2.0-20.0 parts by weight, 0.1-20.0 parts by weight, 0.1-10.0 parts by weight, and 0.1-10.0 parts by weight of the modified asphalt composition, respectively. The weight ratio of the base asphalt in step (3) to that in step (1) is 0-50:100-50.--

Please replace the paragraph beginning at page 8, line 1 to line 8, with the following rewritten paragraph:

-- The process provided by the present invention comprises the following steps:

(1) contacting the base asphalt with the ~~compatilizer~~ compatibilizer at 100°C-250°C for 0.1-6 h to yield the treated base asphalt;

(2) mixing the treated base asphalt with the polymer having double bonds for 0.1-10 h to yield the asphalt mother liquor;

(3) adding the cross-linking reagent, organic polar compound, and optional ~~compatilizer~~ compatibilizer to the asphalt mother liquor at 100°C-250°C to react for 5-300 min, yielding the modified asphalt composition.--

Please replace the paragraph beginning at page 8, line 9 to line 13, with the following rewritten paragraph:

--In this embodiment, said base asphalt, polymer having double bonds, ~~compatilizer~~ compatibilizer, cross-linking reagent, and organic polar compound account for 50-97.7 parts by weight, 2.0-20.0 parts by weight, 0.1-20.0 parts by weight, 0.1-10.0 parts by weight, and 0.1-10.0 parts by weight of the modified asphalt composition. The weight ratio of the ~~compatilizer~~ compatibilizer in step (3) to that in step (1) is 0-50:100-50.--

Please replace the paragraph beginning at page 8, line 14 to line 22, with the following rewritten paragraph:

-- Embodiment 3:

The process provided by the present invention comprises the following steps:

(1) mixing the base asphalt at 100°C-250°C with the polymer having double bonds for 0.1-10 h to yield the asphalt mother liquor;

(2) contacting the asphalt mother liquor at 100°C-250°C with the ~~compatilizer~~ compatibilizer at 100-250°C for 0.1-6 h to yield the treated asphalt mother liquor:

(3) adding the cross-linking reagent, organic polar compound, and the optional base asphalt to the treated asphalt mother liquor to react for 5-300 min, yielding the modified asphalt composition.--

Please replace the paragraph beginning at page 8, line 23 to line 28, with the following rewritten paragraph:

-- In this embodiment, said base asphalt, polymer having double bonds, ~~compatilizer~~ compatibilizer, cross-linking reagent, and organic polar compound account for 50-97.7 parts by weight, 2.0-20.0 parts by weight, 0.1-20.0 parts by weight, 0.1-10.0 parts by weight, and 0.1-10.0 parts by weight of the modified asphalt composition, respectively. The weight ratio of the base asphalt in step (3) to that in step (1) is 0-50:100-50.--

Please replace the paragraph beginning at page 8, line 30 to page 9, line 9, with the following rewritten paragraph:

-- The process provided by the present invention comprises the following steps:

- (1) contacting 2.0-20.0 parts by weight of a polymer having double bonds with 0.1-20.0 parts by weight of a ~~compatilizer~~ compatibilizer at 10°C-250°C for 0.1-72 h to yield the treated polymer having double bonds;
- (2) heating 50-97.7 parts by weight of the base asphalt to 100°C-250°C;
- (3) mixing the treated polymer having double bonds with the heated base asphalt for 0.1-6.0 h to yield an asphalt mother liquor, and maintaining the temperature of the asphalt mother liquor at 100°C-250°C;
- (4) adding 0.1-10.0 parts by weight of the cross-linking reagent and 0.1-10.0 parts by weight of the organic polar compound into the asphalt mother liquor to react for 5-300 min, yielding the modified asphalt composition.--

Please replace the paragraph beginning at page 9, line 26 to line 29, with the following rewritten paragraph:

-- Said ~~compatilizer~~ compatibilizer is one selected from the group consisting of styrene tar, tall oil, acid-containing tall oil, catalytically cracked oil slurry, heavy deasphalted oil, extracted oil obtained by solvent refining, naphthenic acid, naphthenic oil, white oil, and coal tar fractions, or a mixture thereof.--

Please replace the paragraph beginning at page 9, line 30 to page 10, line 1, with the following rewritten paragraph:

-- The addition of the ~~compatilizer~~ compatibilizer into the system can enhance the compatibility of the polymer in asphalt. Since the ~~compatilizer~~ compatibilizer

itself has good intersolubility with both the polymer and asphalt, it can increase the compatibility with both.--

Please replace the paragraph beginning at page 13, line 5 to line 6, with the following rewritten paragraph:

-- The present example illustrates the case wherein the modified asphalt composition was prepared by treating the base asphalt with the ~~compatilizer~~ compatibilizer.--

Please replace the paragraph beginning at page 13, line 17 to line 18, with the following rewritten paragraph:

-- The present example illustrates the case wherein the modified asphalt composition was prepared by adding the ~~compatilizer~~ compatibilizer twice.--

Please replace the paragraph beginning at page 13, line 27 to line 29, with the following rewritten paragraph:

-- The present example illustrates the case wherein the modified asphalt composition was prepared by treating the asphalt mother liquor with the ~~compatilizer~~ compatibilizer.--

Please replace the paragraph beginning at page 14, line 29 to line 31, with the following rewritten paragraph:

-- The present example illustrates the case wherein the modified asphalt composition was prepared by treating the asphalt mother liquor with the ~~compatilizer~~ compatibilizer.--

Please replace the paragraph beginning at page 15, line 31 to page 16, line 1, with the following rewritten paragraph:

-- The present example illustrates the case wherein the modified asphalt composition was prepared by adding the ~~compatilizer~~ compatibilizer at last.--

Please replace the paragraph beginning at page 16, line 12 to line 14, with the following rewritten paragraph:

-- Example 8-11 illustrate the case wherein the modified asphalt compositions were prepared by treating polymer having double bonds with different kinds of ~~compatilizers~~ compatibilizers.--

Please replace Table 3 on page 18 the following rewritten table:

Table 3

No.	Ex. 1	Ex. 2	Ex. 3	Comp. Ex. 1
Base asphalt A, wt%	60.0	60.0	94.06	96.04
SBS, wt%	15.0	15.0	2.86	2.86
compatilizer compatibilizer, wt%	20.0	20.0	0.98	1.0
Cross-linking reagent, wt%	3.0	3.0	0.1	0.1
Organic polar compound, wt%	2.0	2.0	2.0	0
Product properties				
Penetration (25°C), dmm	50	52	67	65
Softening point (ring-and-ball), °C	86.2	88.8	58.5	55.5
Ductility (5°C, 5 cm/min), cm	43	38	35	38
Stability test, °C	2.0	2.5	1	45
Viscosity (135°C), centistokes	2132	2003	980	1002
Adhesive toughness (25°C), N·m	32.2	28.5	15.3	13.2
Thin film oven (163°C, 5 h)				
Ratio of Penetration, %	92	94	67.5	68.4
Ductility (5°C), cm	25	24.5	22	28

Please replace Table 4 on page 19 the following rewritten table:

Table 4

No.	Ex. 4	Ex. 5	Ex. 6	Ex. 7
Base asphalt, wt%	A/72.8	A/94.06	B/95.0	B/95.0
SBS, wt%	2.2	2.91	2.9	2.9
compatilizer compatibilizer, wt%	15.0	0.93	0.5	0.5
Cross-linking reagent, wt%	5.0	0.1	1.0	1.0
Organic polar compound, wt%	5.0	2	0.6	0.6
Product properties				
Penetration (25°C), dmm	95	83	62	61
Softening point (ring-and-ball), °C	58.5	61.5	76.3	78.4
Ductility (5°C, 5 cm/min), cm	86	64	54	48
Stability test, °C	0.5	0.5	2.0	1.0
Viscosity (135°C), centistokes	992	1035	1532	1438
Adhesive toughness (25°C), N·m	15.2	21.2	25.2	23.3
Thin film oven (163°C, 5 h)				
Ratio of Penetration, %	78.5	82.1	76.1	75.4
Ductility (5°C), cm	63	53	41	42

Please replace Table 5 on page 20 the following rewritten table:

Table 5

No.	Ex. 8	Ex. 9	Ex. 10	Ex. 11
Base asphalt, wt%	A/77	A/95.8	B/90	B/55
SBS, wt%	7	3	3	15
compatilizer compatibilizer, wt%	15	0.5	6	20
Cross-linking reagent, wt%	0.3	0.2	0.5	5
Organic polar compound, wt%	0.7	0.5	0.5	5
Product properties				
Penetration (25°C), dmm	45	60	85	75
Softening point (ring-and-ball), °C	92	58.5	56	74.3
Ductility (5°C, 5 cm/min), cm	65	42	53	54
Stability test, °C	2.5	2.0	1.0	1.0
Viscosity (135°C), centistokes	1895	975	876	2658
Adhesive toughness (25°C), N·m	31.2	16.8	14.2	33.5
Thin Film Oven (163°C, 5 h)				
Ratio of Penetration, %	95.3	76.5	68.5	86.8
Ductility (5°C), cm	46	31	36	35